

**METHODS AND SYSTEMS FOR ASSESSING BIOLOGICAL MATERIALS USING
OPTICAL DETECTION TECHNIQUES**

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Abstract of the Disclosure

Optical detection techniques for the assessment of the physiological state, health and/or viability of biological materials are provided. Biological materials which may be examined using such techniques include cells, tissues, organs and subcellular components. The inventive techniques may be employed in high throughput screening of potential diagnostic and/or therapeutic agents.